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ALBERTA POPULATION GROWTH

FIRST QUARTER, 1986

Alberta

TREASURY
Bureau of Statistics

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ALBERTA POPULATION GROWTH
FIRST QUARTER, 1986

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INTRODUCTION

This population growth publication presents estimated population levels and growth components (births, deaths and migration) for Alberta for the first quarter of 1986.

Detailed information on population exchange between Alberta and the other provinces and estimates of population by sex and age are also included. The recent population trends are analyzed in the following sections; a brief description of the methodology and information sources used in deriving these estimates is discussed in the appendix.

Each year, in the first quarter report, the Bureau incorporates Statistics Canada's final annual revisions to postcensal data based on Revenue Canada tax files. These revisions resulted in upward adjustments to net migration, primarily during the 1983-1984 period. Although the cumulated effect by 1986 is a total population level that is about 9,500 higher than the previous estimate, the pattern of population change remains the same.

With this quarter's edition, the Bureau has revised the format of tables and figures for easier interpretation and reading. In the new Table 5, population by single and five years of age for June 1, 1985 and 1986 is introduced. Population with the similar age groupings will be provided in the third quarterly publication.

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REVIEW OF THE DATA

Alberta's first quarter population growth was the largest quarterly increase since mid-1982. The relatively large gain reflected a pattern of lower out-migration, which began in the latter part of 1985. Migration was actually positive in the first quarter, the first time this had occurred in three-and-one-half years.

More specifically:

- Population grew by 9,300 in the first quarter, considerably more than the growth of 6,600 recorded in the previous quarter (Figure 1 and Table 1).

- Net migration over the past three months recorded an inflow of 2,300 compared to a loss of 300 in the fourth quarter of 1985. This was the first quarter the province experienced positive net migration since mid-1982 (Figure 2). The shift from negative to positive migration caused the relatively large quarterly growth.

- Substantial inflows of migrants from neighbouring Saskatchewan and, in particular, British Columbia combined with lower out-migration to Ontario, generated the net in-migration (Table 3).

- During the first quarter of 1986, the province experienced a total inflow of 15,200 persons from other provinces and an outflow of 13,700, resulting in a net interprovincial gain of 1,500. As shown in Figure 3, British Columbia was the primary source of Alberta's in-migrants (6,385 or 42%) and, coincidentally, the largest receiving province of Alberta's out-migrants (4,925 or 36%).

- In addition to interprovincial migration, international migration, as usual, contributed to the province's population growth. Net international migration was estimated at 800--with 2,200 immigrants and 1,400 emigrants (Table 2).

- The natural increase (births less deaths), an important component to Alberta's population growth, added 7,000 to the population during the first quarter (Table 4).

- For the year ending April 1, 1986, total population increased by 25,400 or 1.1%, following a year of little growth, 3,700, in 1984-85 (Table 1).

- The reduced level of net out-migration to other provinces from 32,600 to 7,300 was the contributing factor to the higher population growth during the past twelve months.

- Between April 1, 1985 and April 1, 1986, Alberta gained 7,065 persons from Saskatchewan, British Columbia, Newfoundland, Nova Scotia and the Territories, but lost 14,405 to the remaining provinces (Table 3). The primary recipient of Alberta's net out-migrants was Ontario which received about 87% of the loss.

- During the past twelve months, net international migration to Alberta declined to a level of 2,700 (9,100 immigrants vs 6,400 emigrants) from a level of 4,800 (10,300 vs 5,500) in the previous twelve month period.

- On an annual basis, the natural increase in population also decreased slightly to 30,000 from 31,400 a year ago. This component, however, continues to be a significant population growth factor.

FIGURE 1

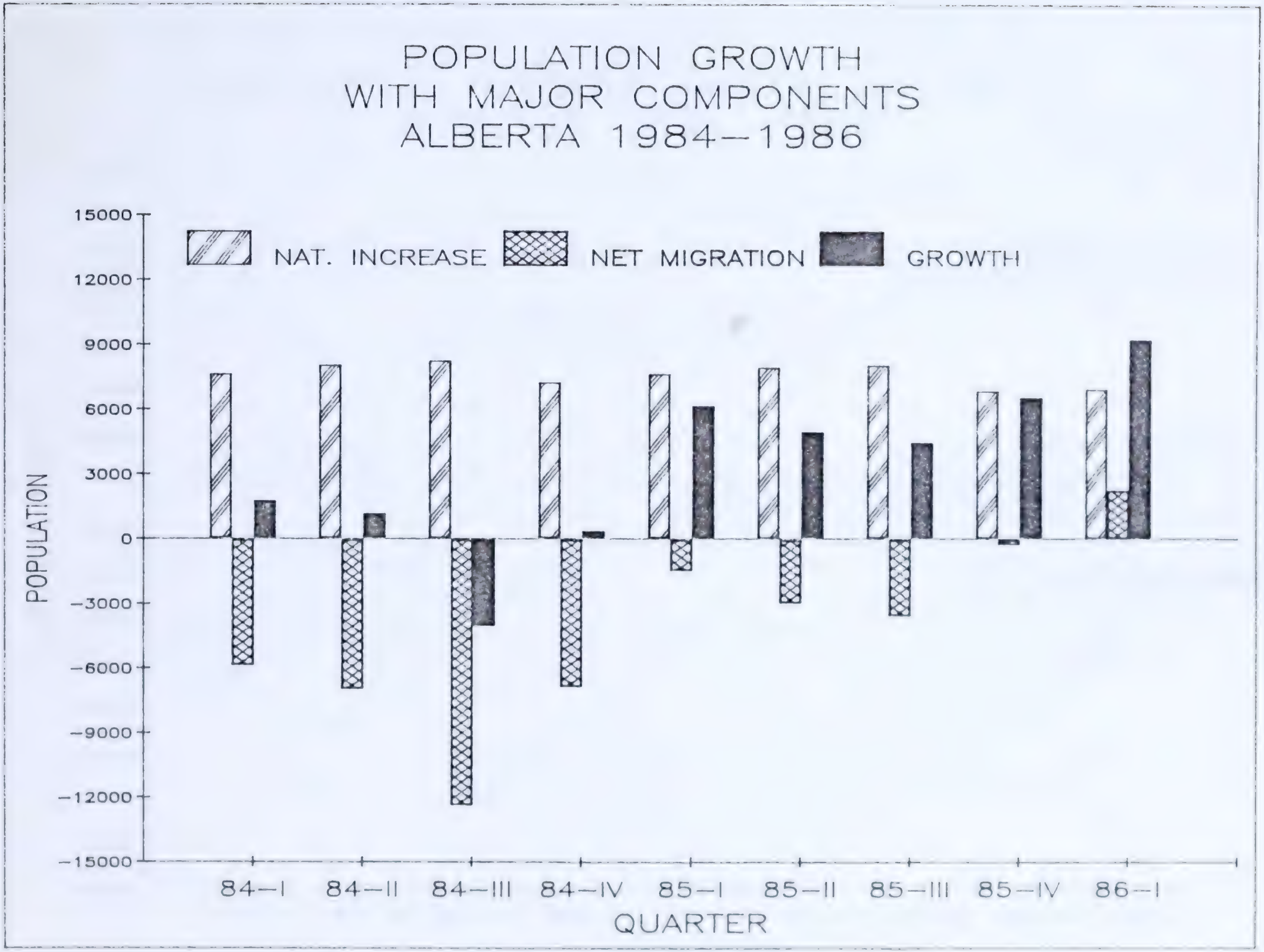

POPULATION GROWTH
WITH MAJOR COMPONENTS
ALBERTA 1984—1986
NAT. INCREASE
NET MIGRATION
GROWTH
POPULATION
15000
12000
9000
6000
3000
0
-3000
-6000
-9000
-12000
-15000
84—I
84—II
84—III
84—IV
85—I
85—II
85—III
85—IV
86—I
QUARTER

FIGURE 2

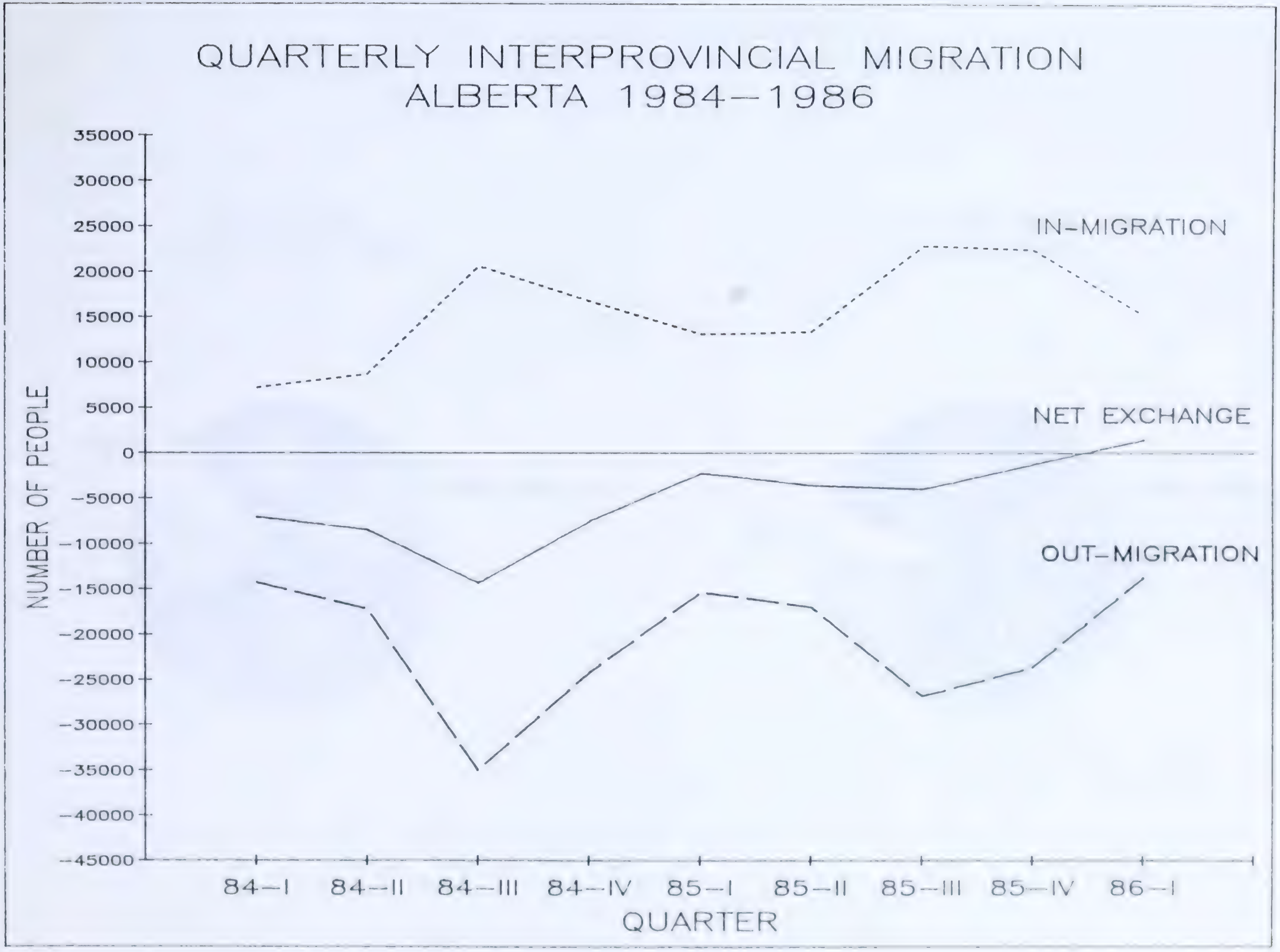
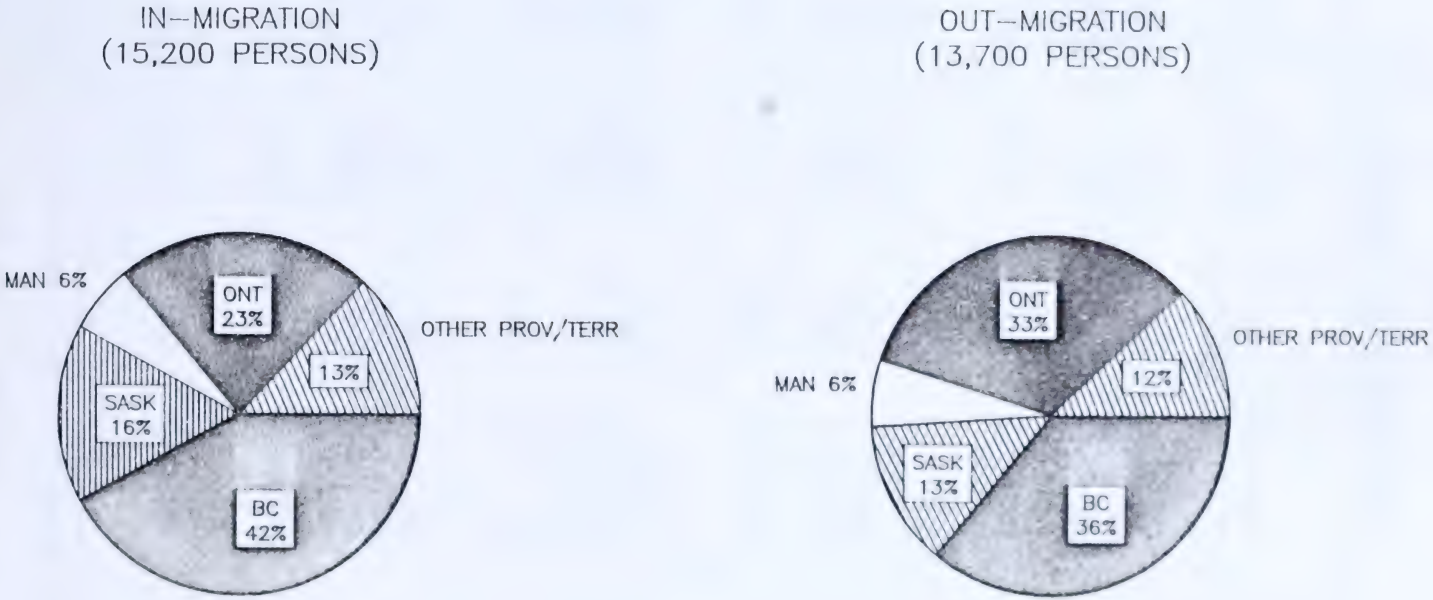

QUARTERLY INTERPROVINCIAL MIGRATION
ALBERTA 1984—1986
NUMBER OF PEOPLE
35000
30000
25000
20000
15000
10000
5000
0
-5000
-10000
-15000
-20000
-25000
-30000
-35000
-40000
-45000
84-I
84-II
84-III
84-IV
85-I
85-II
85-III
85-IV
86-I
QUARTER
IN-MIGRATION
NET EXCHANGE
OUT-MIGRATION

FIGURE 3

POPULATION EXCHANGE
ALBERTA AND OTHER PROVINCES
FIRST QUARTER 1986


IN--MIGRATION
(15,200 PERSONS)

OUT--MIGRATION
(13,700 PERSONS)

TABLE 1

POPULATION GROWTH BY MAJOR COMPONENT
ALBERTA, 1982 to 1986

Quarter	Natural Increase	Net Migration	Growth	Population	Growth Over Previous Year (%)
1982					
I	7,700	7,100	14,900	2,306,100	3.6
II	8.300	7,900	16,200	2,322,300	3.4
III	8,700	-100	8,500	2,330,800	2.6
IV	7,300	-200	7,100	2,337,900	2.0
TOTAL	32,000	14,700	46,700	2,337,900	2.0
1983					
I	7,900	-2,100	5,800	2,343,700	1.6
II^{r}	8,800	-5,300	3,400	2,347,100	1.1
III^{r}	8,700	-9,500	-800	2,346,300	0.7
IV^{r}	7,500	-5,800	1,700	2,348,100	0.4
TOTAL	32,900	-22,700	10,200	2,348,100	0.4
1984					
I^{r}	7,700	-5,900	1,800	2,349,800	0.3
II^{r}	8,100	-7,000	1,200	2,351,000	0.2
III	8,300	-12,400	-4,100	2,346,900	0
IV	7,300	-6,900	400	2,347,300	0
TOTAL	31,400	-32,200	-800	2,347,300	0
1985					
I	7,700	-1,500	6,200	2,353,500	0.2
II	8,000	-3,000	5,000	2,358,500	0.3
III	8,100	-3,600	4,500	2,363,000	0.7
IV^{r}	6,900	-300	6,600	2,369,600	1.0
TOTAL	30,700	-8,400	22,300	2,369,600	1.0
1986					
I^{p}	**7,000**	**2,300**	**9,300**	**2,378,900**	**1.1**

Notes: Reference date for population is the first day of the subsequent quarter.
Data may not add to totals due to rounding.
r: revised
p: preliminary

TABLE 2

MIGRATION BY COMPONENT
ALBERTA, 1984 to 1986

	International			Interprovincial		
Quarter	Im-migration	Em-igration	Net	In Migration	Out Migration	Net
1984						
I[r]	2,400	1,300	1,100	7,200	14,300	-7,100
II[r]	3,000	1,500	1,500	8,700	17,200	-8,500
III	3,100	1,100	2,000	20,600	35,000	-14,400
IV	2,200	1,600	600	16,700	24,200	-7,500
TOTAL	10,700	5,500	5,200	53,200	90,600	-37,400
1985						
I	2,000	1,300	700	13,100	15,300	-2,200
II	2,000	1,400	600	13,400	17,000	-3,600
III	2,700	2,300	400	22,800	26,800	-4,000
IV	2,200	1,300	900	22,400	23,600	-1,200
TOTAL	8,900	6,300	2,600	71,700	82,700	-11,000
1986						
I[p]	2,200	1,400	800	15,200	13,700	1,500

Notes: Data may not add to totals due to rounding.
r: revised
p: preliminary

TABLE 3

POPULATION EXCHANGE WITH OTHER PROVINCES
ALBERTA, 1984 to 1986

Quarter	Migration	NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	BC	TERR	TOTAL
1984												
I^r	To Alberta	180	20	150	165	270	1675	610	1100	2825	250	7,200
	From Alberta	205	120	595	280	910	5350	835	1670	4085	220	14,300
	Net Exchange	**-25**	**-100**	**-445**	**-115**	**-640**	**-3675**	**-225**	**-570**	**-1260**	**30**	**-7,100**
II^r	To Alberta	175	95	345	170	310	2040	790	1230	3255	245	8,700
	From Alberta	255	115	875	465	1345	5430	1035	2175	5280	200	17,200
	Net Exchange	**-80**	**-20**	**-530**	**-295**	**-1035**	**-3390**	**-245**	**-945**	**-2025**	**45**	**-8,500**
III	To Alberta	450	120	930	830	955	5400	1560	2825	7015	515	20,600
	From Alberta	585	255	1570	1005	2240	12860	1840	3525	10420	690	35,000
	Net Exchange	**-135**	**-135**	**-640**	**-175**	**-1285**	**-7460**	**-280**	**-700**	**-3405**	**-175**	**-14,400**
IV	To Alberta	430	75	675	475	890	4080	1155	2220	6260	395	16,700
	From Alberta	440	200	990	730	1390	8200	1430	2820	7595	355	24,200
	Net Exchange	**-10**	**-125**	**-315**	**-255**	**-500**	**-4120**	**-275**	**-600**	**-1335**	**40**	**-7,500**
TOTAL	To Alberta	1235	310	2100	1640	2425	13195	4115	7375	19355	1405	53,200
	From Alberta	1485	690	4030	2480	5885	31840	5140	10190	27380	1465	90,600
	Net Exchange	**-250**	**-380**	**-1930**	**-840**	**-3460**	**-18645**	**-1025**	**-2815**	**-8025**	**-60**	**-37,400**

See note at end of table.

TABLE 3 (continued)

POPULATION EXCHANGE WITH OTHER PROVINCES
ALBERTA, 1984 to 1986

Quarter	Migration	NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	BC	TERR	TOTAL
1985												
I	To Alberta	230	75	515	330	370	3100	830	2115	5285	250	13,100
	From Alberta	275	60	605	415	800	5310	910	1650	4935	305	15,300
	Net Exchange	**-45**	**15**	**-90**	**-85**	**-430**	**-2210**	**-80**	**465**	**350**	**-55**	**-2,200**
II	To Alberta	240	50	530	340	345	2525	925	2365	5755	360	13,400
	From Alberta	235	110	595	445	845	5815	1165	1870	5635	315	17,000
	Net Exchange	**5**	**-60**	**-65**	**-105**	**-500**	**-3290**	**-240**	**495**	**120**	**45**	**-3,600**
III	To Alberta	505	205	1065	685	750	5115	1905	3855	8025	645	22,800
	From Alberta	510	215	1110	645	1355	9290	1985	2515	8545	535	26,800
	Net Exchange	**-5**	**-10**	**-45**	**40**	**-605**	**-4175**	**-80**	**1340**	**-620**	**110**	**-4,000**
IV	To Alberta	505	85	995	480	775	3725	1425	3815	9880	755	22,400
	From Alberta	355	120	715	615	900	7650	1500	3145	8245	360	23,600
	Net Exchange	**150**	**-35**	**280**	**-135**	**-125**	**-3925**	**-75**	**670**	**1635**	**395**	**-1,200**
TOTAL	To Alberta	1480	415	3105	1835	2240	14465	5085	12150	28945	2010	71,700
	From Alberta	1375	505	3025	2120	3900	28065	5560	9180	27460	1515	82,700
	Net Exchange	**105**	**-90**	**80**	**-285**	**-1660**	**-13600**	**-475**	**2970**	**1485**	**495**	**-11,000**

See note at end of table.

TABLE 3 (concluded)

POPULATION EXCHANGE WITH OTHER PROVINCES
ALBERTA, 1984 to 1986

Quarter	Migration	NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	BC	TERR	TOTAL
1986												
I^p	To Alberta	380	65	470	330	355	3430	930	2400	6385	445	15,200
	From Alberta	185	60	365	175	645	4560	755	1800	4925	250	13,700
	Net Exchange	**195**	**5**	**105**	**155**	**-290**	**-1130**	**175**	**600**	**1460**	**195**	**1,500**

Note: Data may not add to totals due to rounding.
Estimates are based on family allowance transfer statistics, Health and Welfare Canada.
r: revised
p: preliminary

TABLE 4

NATURAL INCREASE BY COMPONENT
ALBERTA, 1984 to 1986

Quarter	Births	Deaths	Natural Increase
1984			
I^r	10,900	3,200	7,700
II^r	11,300	3,200	8,100
III	11,300	3,000	8,300
IV	10,500	3,200	7,300
TOTAL	44,000	12,600	31,400
1985			
I	11,000	3,300	7,700
II	11,300	3,300	8,000
III	11,300	3,200	8,100
IV^r	10,400	3,500	6,900
TOTAL	44,000	13,300	30,700
1986			
I^p	10,500	3,500	7,000

Notes: Data may not add to totals due to rounding.
r: revised
p: preliminary

TABLE 5

POPULATION BY AGE AND SEX
ALBERTA, 1985 and 1986

Age	January 1, 1985			January 1, 1986		
	Male	Female	Total	Male	Female	Total
0	20,000	19,100	39,100	20,400	19,400	39,800
1	22,000	20,600	42,600	22,000	21,000	43,000
2	21,300	20,500	41,800	22,200	20,800	42,900
3	20,800	19,800	40,500	21,300	20,500	41,900
4	20,200	19,000	39,200	20,600	19,600	40,200
0–4	104,200	99,000	203,200	106,500	101,300	207,800
5	19,500	18,500	38,000	20,000	18,900	38,900
6	18,900	17,800	36,700	19,400	18,400	37,800
7	18,900	17,900	36,800	18,700	17,700	36,500
8	18,500	17,500	36,000	18,900	17,800	36,700
9	18,200	17,300	35,500	18,500	17,500	36,000
5–9	94,000	88,900	182,900	95,600	90,300	185,900
10	17,600	16,900	34,500	18,200	17,400	35,500
11	17,600	16,600	34,200	17,600	17,000	34,600
12	17,800	16,900	34,700	17,700	16,700	34,500
13	18,700	17,400	36,100	18,000	17,000	34,900
14	18,800	17,800	36,600	18,800	17,600	36,400
10–14	90,500	85,600	176,000	90,400	85,600	176,000
15	18,100	17,500	35,600	19,100	18,000	37,000
16	18,200	17,200	35,400	18,300	17,800	36,100
17	18,400	17,600	36,000	18,500	17,500	36,100
18	18,700	18,300	37,000	18,900	18,400	37,300
19	20,300	20,100	40,400	19,300	19,300	38,600
15–19	93,700	90,600	184,400	94,100	91,000	185,100
20	22,100	22,600	44,700	20,800	20,800	41,600
21	22,400	23,600	46,100	20,200	22,000	42,300
22	24,700	25,600	50,400	22,500	23,900	46,400
23	26,100	26,300	52,400	23,500	25,400	48,900
24	27,600	26,700	54,300	24,400	25,800	50,200
20–24	123,000	124,900	247,900	111,400	117,900	229,200
25	28,100	26,800	54,900	25,600	26,000	51,600
26	28,200	26,200	54,400	26,000	26,200	52,100
27	28,100	25,900	54,100	26,300	25,800	52,000
28	28,000	25,300	53,300	26,200	25,400	51,600
29	26,900	24,600	51,500	26,000	24,900	51,000
25–29	139,300	128,900	268,300	130,000	128,300	258,300
30	26,100	23,600	49,800	25,300	24,400	49,700
31	24,400	22,400	46,800	24,800	23,500	48,200
32	23,100	20,900	44,100	23,300	22,200	45,500
33	21,700	19,800	41,400	22,200	20,900	43,100
34	21,000	19,300	40,300	20,700	19,700	40,400
30–34	116,300	106,100	222,400	116,300	110,700	226,900
35	20,100	18,300	38,400	20,100	19,100	39,200
36	19,400	18,300	37,600	19,400	18,300	37,700
37	19,900	18,900	38,800	18,800	18,300	37,100
38	17,300	16,400	33,700	19,500	19,000	38,500
39	15,300	14,400	29,700	16,900	16,400	33,300
35–39	92,000	86,200	178,200	94,600	91,200	185,800
40	14,800	13,700	28,600	15,000	14,500	29,500
41	14,400	13,500	28,000	14,600	13,800	28,400
42	13,700	13,000	26,700	14,200	13,700	28,000
43	12,500	11,700	24,200	13,500	13,100	26,600
44	12,300	11,500	23,800	12,400	11,900	24,300
40–44	67,700	63,500	131,200	69,800	67,000	136,700

See note at end of table.

TABLE 5 (continued)

POPULATION BY AGE AND SEX
ALBERTA, 1985 and 1986

Age	January 1, 1985			January 1, 1986		
	Male	Female	Total	Male	Female	Total
45	11,700	10,900	22,600	12,200	11,600	23,800
46	11,200	10,600	21,800	11,600	11,000	22,700
47	10,800	10,200	21,100	11,100	10,800	21,900
48	10,900	10,200	21,000	10,700	10,400	21,100
49	10,600	9,900	20,600	10,800	10,300	21,100
45-49	55,300	51,800	107,000	56,500	54,100	110,600
50	10,600	9,900	20,500	10,600	10,100	20,700
51	10,500	9,400	19,800	10,600	10,100	20,600
52	10,500	9,800	20,300	10,400	9,500	19,900
53	10,200	9,200	19,400	10,500	9,900	20,500
54	10,400	9,600	20,000	10,200	9,400	19,600
50-54	52,100	47,900	100,000	52,200	49,000	101,200
55	9,900	9,200	19,100	10,400	9,800	20,200
56	9,600	8,900	18,500	9,900	9,400	19,300
57	9,000	8,700	17,700	9,600	9,100	18,600
58	8,700	8,500	17,200	9,000	8,900	17,900
59	8,400	8,500	16,800	8,700	8,700	17,400
55-59	45,400	43,900	89,300	47,600	45,800	93,400
60	8,000	8,300	16,300	8,400	8,600	17,000
61	7,500	8,200	15,700	8,000	8,400	16,400
62	7,400	8,100	15,500	7,500	8,300	15,900
63	7,300	7,800	15,100	7,400	8,300	15,700
64	7,200	7,700	14,800	7,400	7,900	15,300
60-64	37,400	39,900	77,300	38,700	41,500	80,200
65	5,900	6,600	12,500	7,100	7,900	15,100
66	5,800	6,600	12,400	6,000	6,800	12,800
67	5,600	6,100	11,700	5,800	6,800	12,600
68	5,400	6,100	11,500	5,600	6,300	11,900
69	5,200	6,000	11,200	5,500	6,300	11,700
65-69	27,900	31,400	59,300	30,000	34,100	64,100
70	5,100	6,100	11,200	5,200	6,100	11,300
71	4,600	5,600	10,200	5,100	6,200	11,300
72	4,300	5,200	9,400	4,600	5,700	10,300
73	3,900	4,700	8,700	4,300	5,300	9,500
74	3,800	4,600	8,400	3,900	4,800	8,700
70-74	21,700	26,200	47,900	23,000	28,000	51,100
75	3,500	4,200	7,600	3,700	4,700	8,400
76	3,300	4,200	7,500	3,400	4,200	7,600
77	2,900	3,800	6,700	3,300	4,200	7,400
78	2,800	3,500	6,300	2,800	3,800	6,600
79	2,500	3,300	5,800	2,600	3,500	6,100
75-79	15,000	18,900	33,900	15,900	20,300	36,200
80	2,400	3,100	5,400	2,400	3,200	5,700
81	2,100	2,700	4,800	2,300	3,000	5,300
82	1,800	2,300	4,100	2,000	2,700	4,600
83	1,500	2,100	3,600	1,700	2,300	4,000
84	1,400	2,100	3,500	1,400	2,000	3,500
80-84	9,200	12,300	21,500	9,800	13,300	23,100
85	1,100	1,700	2,800	1,200	2,000	3,300
86	800	1,600	2,400	1,000	1,600	2,600
87	800	1,300	2,100	700	1,500	2,200
88	600	1,200	1,800	700	1,200	1,900
89	600	1,000	1,600	500	1,100	1,600
85-89	3,900	6,800	10,600	4,200	7,400	11,600
90+	2,100	3,800	6,000	2,200	4,000	6,200
TOTAL	**1,190,700**	**1,156,600**	**2,347,300**	**1,188,900**	**1,180,700**	**2,369,600**

Note: Age and sex distributions are based on Alberta Health Care Registrations.
Data may not add to totals due to rounding.

APPENDIX I

METHODOLOGY

Introduction

Since 1977 the Alberta Bureau of Statistics has prepared quarterly population estimates to provide up-to-date information on Alberta's population. These estimates are derived using information from administrative data files obtained from the following government agencies:

1) birth and death registrations data from Vital Statistics Section, Community and Occupational Health;
2) family allowance transfer counts from Income Security Branch, Health and Welfare Canada;
3) immigration statistics from Employment and Immigration Canada;
4) migration adjustment factors and population estimates for other provinces from Demography Division, Statistics Canada; and
5) health care registration data from Alberta Hospitals and Medical Care.

The final estimates are produced using a component method. The following is a brief description of the methodology used in estimating each of the population growth components and the distribution by age and sex. A more detailed discussion of the methodology and the procedures is provided annually in the second quarter edition.

The Component Method

The component method of estimating quarterly population growth employs the population of a previous quarter as a base, adds the natural increase plus net migration to derive the population estimates for the following quarter. Natural increase is obtained by subtracting deaths from births. Net migration is obtained by aggregating net inter-

provincial (in-migration minus out-migration) and net international migration (immigration minus emigration). These are then combined to derive an estimate of population growth.

Natural Increase

Natural increase is calculated as the difference between the number of births and the number of deaths that occurred during a specific quarter. Preliminary estimates on births and deaths are produced using birth and death rates. The average quarterly crude birth rate and the crude death rate of the preceding year are applied to the estimated provincial population at the beginning of the period to derive the estimated number of births and deaths. These estimates will be replaced by actual counts in a subsequent quarterly report when final vital statistics data are available from Vital Statistics Branch, Community and Occupational Health.

Interprovincial Migration

To estimate interprovincial migration, family allowance transfer of accounts are used in conjunction with the latest adjustment factors and child-adult ratios. Since family allowance cheques are mailed to recipient families monthly, there is incentive for these families to report any change in their address. The time lag in reporting is usually very small. Family allowance transfer of accounts data are fairly complete in the coverage of the movements of children among the provinces, although limited by the shortcomings associated with administrative data files such as mis-reporting and reporting delays. The procedures used in estimating interprovincial migration for Alberta have been improved by incorporating new findings from tax records migration data. Net interprovincial migration is derived as the balance of in-migration and out-migration.

Immigration

The estimation of immigration is first produced on a preliminary basis and then revised when immigration statistics are available. Preliminary estimates are derived taking into consideration the expected number of immigrants to be admitted to Canada in a certain year as announced by Employment and Immigration Canada. Based on the immigration records for the previous year, a ratio is derived to estimate Alberta's share of immigrants.

Previous immigration statistics for Alberta are used to develop the appropriate quarterly ratio allocation of these immigrants. This ratio is applied to the annual number of immigrants expected to arrive in Alberta to obtain the quarterly immigration estimate.

Revised estimates on the number of immigrants coming to Alberta are based on immigration statistics supplied by Employment and Immigration Canada. These statistics are compiled from immigration papers which each immigrant submits to the Canadian authority at the port of entry. These revised figures can be obtained by the subsequent quarter and will replace the preliminary estimate.

Emigration

Emigration estimates are derived from a method developed by Statistics Canada in which an adjustment factor is developed from emigration information retrieved from personal income tax files. This adjustment factor is applied to the number of family allowance accounts which have been transferred out of the country during the quarter to obtain the emigration estimate. An adult-child ratio based on health care registration records for Alberta is then applied to estimate the number of adult emigrants. The sum of estimated adult emigrants and the number of child emigrants, as indicated by family allowance data, equals the total number of estimated emigrants.

Age-Sex Structure

Age and sex distributions for the January 1 and June 1 estimated population are derived by applying the proportionate age and sex distributions as recorded in the Alberta Health Care Insurance Plan (AHCIP) Master Registration File for the same quarter to the estimated total population of Alberta. Although the health care records are subject to certain limitations such as reporting error, time lags and administrative changes, the age and sex distributions of registrants are generally useful in reflecting the most current age-sex structure of the Alberta population.

GLOSSARY

Birth rate, or crude birth rate - the number of births in a year divided by the total population.

Death rate, or crude death rate - the number of deaths in a year divided by the total population.

Emigration - the migration of population out of a country to another country.

Immigration - the migration of population into a country from another country.

In-migration - the migration of population into a geographical area from another area.

Migration - a permanent change of residence from one geographical area to another.

Natural Increase - the net contribution of births less deaths to population change.

Net Migration - the difference between in-migration and out-migration for a geographical area.

Out-migration - the migration of population out of a geographical area.